301.3 - Electrophoretic Mobility, E (suspension form)

SRM 1980 is intended for use in the calibration and evaluation of equipment used to measure electrophoretic mobility. It consists of a goethite suspension saturated with phosphate in a sodium perchlorate electrolyte solution.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	1980	1992	1993
Description	**Positive Electrophoretic Mobility ($+\mu_E$) Standard**	**Zeta Potential - Colloidal Silica (Nominal Mass Fraction 0.15 %)**	**Zeta Potential - Colloidal Silica (Nominal Mass Fraction 2.2 %)**
Unit Size	**(40 mL)**	**(4 x 5 mL)**	**(2 x 25 mL)**
Property Certified	$+\mu_E$, 2.53 µm • cm/V • s	Mean electrophoretic mobility, -4.5×10^{-8} m^2 V^{-1} s^{-1} Mean zeta potential, -58 mV	Mean electrophoretic mobility, -4.3×10^{-8} m^2 V^{-1} s^{-1} Mean zeta potential, -56 mV

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only